

# NORTHERN PACIFIC RAILWAY COMPANY.

**DULUTH AND SUPERIOR TERMINALS**

# TIME **164** TABLE

**In Effect at 12:01 A. M. Central or 90th Meridian Time.**

**SUNDAY, NOVEMBER 29, 1931.**

**For the Government of Employes only. The Company reserves the right to vary therefrom at pleasure. Be positive that you have the Current Time Table and destroy all previous numbers. Read carefully the Special Instructions and always have for reference a copy of TRANSPORTATION RULES.**

**W. C. SLOAN,**  
General Manager.

**W. H. STRACHAN,**  
Assistant General Manager

**G. H. JACOBUS,**  
Superintendent.

**P. H. MCCAULEY,**  
General Superintendent of Transportation.

WESTWARD

FIRST SUB-DIVISION  
(DULUTH AND SUPERIOR TERMINAL)

FIRST CLASS									Water, Fuel, Groceries, etc., at each station and Yard Limits.	Station Numbers.	Distance from D. & N. Jct.	Time Table No. 164 November 29, 1931 Succeeding No. 163.			Distance from Fond du Lac.	Car Capacity of Sidings.	FIRST CLASS			SECOND CLASS		THIRD CLASS	
55	401	201	407	61	51	403	203	405				303	57	65			623	627	717	727			
N. P. 55	D. M. & N. 10	D. M. & N. 1	D. M. & N. 22	N. P. 61	N. P. 52	D. M. & N. 24	D. M. & N. 3	D. M. & N. 6				D. W. & P. 19	N. P. 57	N. P. 65			N. P. 623	N. P. 627	N. P. 717	N. P. 727			
Motor Car	Passenger	Passenger	Passenger	Passenger	Motor Car	Passenger	Passenger	Passenger				Passenger	Passenger	Passenger			Freight	Freight	Way Freight	Way Freight			
Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Mo., Wed. and Fri.								
	L 7.55AM		L 7.50AM			L 3.15PM		L 5.31PM	WCO	0.0	EAST D. M. & N. JCT.	15.1											
L 7.15AM	A 8.00AM	L 8.30AM	A 7.55AM	L 8.00AM	L 2.50PM	A 3.20PM	L 3.50PM	A 5.35PM	TYX	0.9	DU DULUTH DN	14.2	L 7.30PM	L 11.30PM	L 5.30PM	L 8.00PM							
A 7.18AM		8.33		8.02	A 2.54PM		3.53			1.0	GARFIELD AVE.	13.2	L 6.51PM	A 7.33PM	11.33	A 5.33PM	8.04						
		8.34		B 8.03			3.54		L 2	2.2	20TH AVE.	12.9	6.53		f 11.35		8.05	L 9.15AM	L 5.30AM				
		A 8.36AM		8.04			A 3.56PM		L 02	2.8	WEST D. M. & N. JCT.	12.3	6.54		11.37		8.07	9.19	5.33				
										3.6	SOO LINE CROSSING	11.5											
				8.08						4.4	D. W. & P. JCT.	10.7	A 6.59PM		11.40		8.13	9.26	5.39				
				B 8.10					L 04	5.1	WU WEST DULUTH DN	10.0			s 11.44		8.16	s 9.30	5.42				
				A 8.13AM					WYX	5.8	WEST DULUTH JCT. P	9.3			A 11.50PM		A 8.20PM	s 9.34	A 5.45AM				
										7.0	D. T. CROSSING	8.1											
										8.1	RIVERSIDE	7.0						s 9.49					
									LB 2	8.5	SPIRIT LAKE	6.6						s 9.51					
									LB 3	9.7	MORGAN PARK	5.4						s 9.58					
										10.7	Minn. Steel Co. Crossing												
											BOAT CLUB	4.4											
									LB 5	12.4	NEW DULUTH P	2.7						s 10.15					
									LB 8	15.1	FOND DU LAC	0.0						A 10.34AM					
Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily	Daily					Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Mo., Wed. and Fri.				
.03	.05	.06	.05	.13	.04	.05	.06	.04					.08	.03	.20	.03	.20	1.19	.16				
20.0	10.8	19.0	10.8	22.6	15.0	10.8	19.0	13.5					18.7	20.0	14.7	20.0	14.7	9.8	14.4				
Time Over Sub-Division																							
Average Speed Per Hour																							

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN DULUTH AND WEST DULUTH JUNCTION.  
AUTOMATIC BLOCK SIGNALS FROM WEST D. M. & N. JCT. TO WEST DULUTH JCT.

SPECIAL INSTRUCTIONS PAGE 7.

REGISTER STATIONS: Duluth Union Depot and West Duluth for first class trains and passenger extras.  
Rice's Point yard office and West Duluth for second and third class trains and extras.

REGISTER EXCEPTIONS: At West Duluth Nos. 61, 65, 627 and 727 register by ticket Form 608.  
At West Duluth, Eastward trains register by ticket Form 608 and not require clearance unless train order signal is displayed at caution or stop.

BULLETIN STATIONS: Duluth Union Depot.  
Rice's Point yard office and Round House.

STANDARD TIME CLOCKS: Duluth Union Depot.  
Rice's Point yard office.

YARD LIMITS: Duluth yard extends from connection with D. M. & N., at Fifth Ave. East, to the easterly end of the St. Louis River bridge, and from Garfield Avenue to the yard limit sign on the Third Sub-Division main track west of West Duluth Junction and to Grassy Point bridge.

BRIDGE RESTRICTIONS:

Duluth to Fond du Lac no restrictions.  
Great Northern Power Co. track. Speed will be restricted on all bridges for S3, S4 and S10 to eight (8) miles per hour.  
Engine classes T, Q1 and heavier will not be permitted.

DERAIL SWITCHES:

When not in use must be kept set in derailing position.  
Main track 110 feet west of Fond du Lac Depot.

WHISTLE CALLS:

D. M. & N. Jct. Interlocking Plant. Trains will call for routes as follows:  
Martin's track to D. M. & N. yard—Three short.  
Martin's track to westward main track—Three short and one long.  
Martin's track to D. T. main track—Four short.  
D. T. main track to Martin's track—Four short.  
D. M. & N. Jct. to Martin's track—Three short.  
Westward main track to D. M. & N. Jct.—One long and one short.  
D. M. & N. Jct. to eastward main track—One long and one short.  
Through Westward main track movements—One long.  
Through Eastward main track movements—One long.

AT DULUTH:

All westward freight trains between Fifth Avenue West and Garfield Avenue must not exceed a speed of twelve miles per hour through cross-over switches at west end of depot yard near switch shanty and over crossings and switches at Garfield Avenue.

**FIRST SUB-DIVISION**  
(DULUTH AND SUPERIOR TERMINAL)

**EASTWARD**

FIRST CLASS											Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Station Numbers.	Distance from D. & I. R. Jct.	Time Table No. 164		Distance from Fond du Lac.	Car Capacity of Shipment.	FIRST CLASS		SECOND CLASS		THIRD CLASS	
66	304	400	58	202	408	52	62	204	404	402				November 29, 1931	56			626	628	718	728		
N. P. 66	D. W. & P. 20	D. M. & N. 5	N. P. 58	D. M. & N. 2	D. M. & N. 23	N. P. 51	N. P. 62	D. M. & N. 4	D. M. & N. 25	D. M. & N. 11	Succeeding No. 163.	N. P. 56	C. M. St. P. & P. 626	N. P. 628	N. P. 718	N. P. 728							
Passenger	Passenger	Passenger	Passenger	Passenger	Passenger	Motor Car	Passenger	Passenger	Passenger	Passenger	<b>STATIONS</b>	Motor Car	Freight	Freight	Way Freight	Way Freight							
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily	Telegraph Offices and Calls	Daily	Daily	Daily	Ex. Sun.	Tue. Thu. and Sat.							
		A 8.39AM			A 11.30AM				A 4.05PM	A 5.45PM	EAST D. M. & N. JCT. 0.9												
A 6.30AM		L 8.35AM	A 9.35AM	A 11.15AM	L 11.25AM	A 12.01PM	A 1.20PM	A 3.50PM	L 4.00PM	L 5.40PM	DU DULUTH DN 1.0	A 11.30PM		A 5.30AM									
6.25	A 8.43AM		L 9.32AM	11.12		L 11.58AM	1.18	3.47			GARFIELD AVE. 0.3	L 11.27PM		5.20									
s 6.22	8.40			11.11			s 1.17	3.46			20TH AVE. 0.6		A 5.10AM	5.15	A 12.22PM	A 2.27PM							
6.19	8.39			L 11.09AM			L 1.16	L 3.44PM			WEST D. M. & N. JCT. Interlocked		5.03	5.08	12.18	2.24							
											SOO LINE CROSSING Interlocked												
6.14	L 8.33AM						1.12				D. W. & P. JCT. Interlocked		4.53	5.02	12.08	2.18							
s 6.12							s 1.10				WU WEST DULUTH DN 0.7		4.50	5.00	s 12.04	2.15							
L 6.03AM							L 1.07PM				WEST DULUTH JCT. P 1.2		L 4.45AM	L 4.55AM	s 12.01PM	L 2.12PM							
											D. T. CROSSING 1.1												
											RIVERSIDE 0.4				s 11.45AM								
											LB 2 8.5 SPIRIT LAKE 1.2				s 11.43								
											LB 3 9.7 MORGAN PARK Minn. Steel Co. Crossing				s 11.35								
											10.7 BOAT CLUB 1.0												
											LB 5 12.4 NEW DULUTH P 1.7				s 11.18								
											LB 8 15.1 FOND DU LAC 2.7				L 11.00AM								
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily	Daily	Time Over Sub-Division	Daily	Daily	Daily	Ex. Sun.	Tue. Thu. and Sat.							
.27	.10	.04	.03	.06	.05	.03	.13	.08	.05	.05	Average Speed Per Hour	.03	.25	.35	1.22	.15							
10.9	15.0	13.5	20.0	19.0	10.8	20.0	22.6	19.0	10.8	10.8		20.0	8.8	8.4	0.4	14.4							

**EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION EXCEPT NO. 717 IS SUPERIOR TO NO. 718 WEST DULUTH JCT. TO FOND DU LAC.**  
**DOUBLE TRACK BETWEEN DULUTH AND WEST DULUTH JUNCTION.**  
**AUTOMATIC BLOCK SIGNALS FROM WEST D. M. & N. JCT. TO WEST DULUTH JCT.**

**SPECIAL INSTRUCTIONS PAGE 7.**

**AT DULUTH:** Garfield Avenue, junction switches will be kept set for First Sub-Division. Rice's Point Yard, trains heading in and using the Dick tracks, Nos. 1 and 2, must not block the crossing at 19th Ave. West. Fifth Ave. West, main track switch leading into Union Depot for use of D. M. & N. passenger trains will be kept set for Depot track. Garfield Avenue, all trains come to full stop not less than two hundred (200) feet from junction switch and cross-over used by D. W. & P. Ry. trains and not proceed until track is known to be clear. At 21st Ave. West, telephone located at cross-over for Eastward freight trains call yard for route when necessary (3 rings).

**AT FOND DU LAC:** Track between Fond du Lac and Power Plant will not be used except by authority of train orders.

**AT WEST DULUTH JUNCTION:** Switch engines will use west leg of wye at West Duluth Junction and the Fond du Lac main track between West Duluth Junction and yard limit board for switch purposes, but will not leave cars on these tracks. All trains will look out for switch engines working in these limits. Switch at west end wye will be kept set and locked for First Sub-Division.

WESTWARD

SECOND SUB-DIVISION  
(DULUTH AND SUPERIOR TERMINAL)

FIRST CLASS								Water, Fuel, Sealer, Turn Tables, Wyes and Yard Limits.	Station Numbers.	Distance from Garfield Ave.	Time Table No. 164 November 29, 1931 Succeeding No. 163.	Distance from Central Ave.	Car Capacity of Sidings.	FIRST CLASS		SECOND CLASS		
55	23	33	51	19	93	57	89							35	65	731	623	625
N. P. 55	G. N. 23	G. N. 33	N. P. 52	G. N. 19	Omaha 512	N. P. 57	Omaha 510							G. N. 35	N. P. 65	N. P. 732	N. P. 623	C. M. St. P. & P. 625
Motor Car	Passenger	Passenger	Motor Car	Passenger	Passenger	Passenger	Passenger							Passenger	Passenger	Freight	Freight	Freight
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Ex. Sun.	Daily	Daily						
L 7.18 <sup>AM</sup>			L 2.54 <sup>PM</sup>			L 7.33 <sup>PM</sup>		WCO TYX	L 1	0.0	GARFIELD AVE.	7.3						
7.21			2.56			7.35				0.8	RICE'S POINT	6.5	Yard		L 12.35 <sup>PM</sup>	5.34	L 8.00 <sup>PM</sup>	
7.23	L 8.32 <sup>AM</sup>	L 8.43 <sup>AM</sup>	2.58	L 4.07 <sup>PM</sup>	L 5.43 <sup>PM</sup>	7.36	L 7.35 <sup>PM</sup>			1.3	BRIDGE SWITCH	6.0		L 10.07 <sup>PM</sup>	12.41	5.36	8.05	
7.26	8.37	8.46	3.01	4.11	5.46	7.39	7.39			2.2	ELEVATOR STATION	5.1		10.10	12.47	5.39	8.09	
7.28	8.39	8.48	3.03	4.14	A 5.49 <sup>PM</sup>	7.41	A 7.42 <sup>PM</sup>			2.9	OMAHA CONN.	4.4		10.12	12.55	5.41	8.11	
s 7.29	s 8.40	s 8.50	s 3.04	s 4.15		s 7.42		X	WB 67	3.2	BY SUPERIOR U. D.	4.1		s 10.15	L 12.06 <sup>AM</sup>			
7.31	8.41	8.51	3.05	4.16		7.44				3.6	BELKNAP STREET	3.7		10.16	12.10	1.00	5.52	8.20
As 7.40 <sup>AM</sup>	As 8.50 <sup>AM</sup>	As 9.00 <sup>AM</sup>	As 3.15 <sup>PM</sup>	A 4.24 <sup>PM</sup>		As 7.55 <sup>PM</sup>		WYX	67	7.3	AJ CENTRAL AVENUE DN	0.0	Yard	As 10.25 <sup>PM</sup>	As 12.20 <sup>AM</sup>	A 1.25 <sup>AM</sup>	As 6.30 <sup>PM</sup>	A 8.50 <sup>PM</sup>
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily							Daily	Daily	Ex. Sun.	Daily	Daily
.22	.18	.17	.21	.17	.08	.22	.07							.18	.14	.50	.57	.50
19.0	20.0	21.1	20.8	21.1	16.0	19.9	13.7							20.0	17.1	7.8	7.7	7.8
											Time Over Sub-Division							
											Average Speed Per Hour							

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN GARFIELD AVENUE AND OMAHA CONNECTION, AND BETWEEN BELKNAP STREET AND CENTRAL AVENUE, EXCEPT OVER MINNESOTA DRAW ON ST. LOUIS RIVER BRIDGE WHICH IS GOVERNED BY INTERLOCKING SIGNAL.  
AUTOMATIC BLOCK SIGNALS BETWEEN CENTRAL AVENUE AND 21ST STREET, SUPERIOR.

SPECIAL INSTRUCTIONS PAGE 7.

REGISTER STATIONS: Superior Union Depot and Central Avenue for first class trains and passenger extras.  
Rice's Point and Central Avenue for second class and inferior trains.

BULLETIN STATIONS: Rice's Point yard office.  
Rice's Point round house.

REGISTER EXCEPTIONS: At Central Avenue Eastward and Westward trains register by ticket, Form 608, and will not require clearance unless train order signal is displayed at stop or caution.

DERAIL SWITCHES: When not in use must be kept set in derailing position.  
East end N. P. Freight House track, Superior.  
Main track just east of N. P. Freight House, Superior.

SPEED RESTRICTIONS:

At Superior, all trains and engines will run with restricted speed between west yard limit board, Superior and Omaha connection, including Lake Superior Terminal & Transfer tracks between Belknap Street and Omaha connection expecting to find track occupied, and will not exceed ten (10) miles per hour over switches at Belknap Street.

AT SUPERIOR:

Second and inferior class trains will move with great care between Winter and Belknap Streets, Superior Freight yard, expecting to find the main tracks blocked.  
All trains using tracks of Lake Superior Terminal & Transfer Railway, between Omaha connection and Belknap Street, will be governed by L. S. T. & T. Ry. time table rules and regulations.

AT CENTRAL AVENUE:

Westward trains and engines have the right to use Eastward main track between west lead from yard and the junction switch leading to terminal Fourth Sub-Division main track without protection, and all eastward trains will approach and pass through this territory with restricted speed expecting to find track occupied.

AT DULUTH:

Garfield Ave., all trains will come to a full stop not less than two hundred (200) feet from junction switch and cross-over used by D. W. & P. trains and not proceed until track is known to be clear.

SECOND SUB-DIVISION  
(DULUTH AND SUPERIOR TERMINAL)

EASTWARD

FIRST CLASS								Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Station Numbers.	Distance from Garfield Ave.	Time Table No. 164 November 29, 1931 Succeeding No. 163	Distance from Central Ave.	Car Capacity of Sidings.	FIRST CLASS		THIRD CLASS		
66	36	94	58	52	96	24	34							20	56	732		
N. P. 66	G. N. 36	Omaha 511	N. P. 58	N. P. 51	Omaha 503	G. N. 24	G. N. 34							G. N. 20	N. P. 56	N. P. 731		
Passenger	Passenger	Passenger	Passenger	Motor Car	Passenger	Passenger	Passenger							Passenger	Motor Car	Way Freight		
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily		Daily	Daily	Ex. Sun.							
			A 9.32AM	A 11.58AM				0.0										
			9.30	11.54				0.8										
	A 7.53AM	A 8.00AM	9.28	11.52	A 1.13PM	A 2.18PM	A 5.53PM	1.3										
	7.49	7.55	9.25	11.49	1.09	2.14	5.49	2.2										
	7.47	L 7.50AM	9.23	11.46	L 1.06PM	2.12	5.47	2.9										
A 5.40AM	s 7.45		s 9.21	s 11.45		s 2.10	s 5.45	X WB67	3.2									
5.38	7.41		9.20	11.44		2.06	5.41		3.6									
L 5.29AM	L 7.28AM		L 9.10AM	L 11.35AM		L 1.58PM	L 5.33PM	WYX 67	7.3									
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily											
.11	.25	.10	.22	.23	.07	.20	.20											
22.3	14.4	9.6	19.9	19.0	13.7	18.0	18.0											

EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
 DOUBLE TRACK BETWEEN GARFIELD AVENUE AND OMAHA CONNECTION AND BETWEEN BELKNAP STREET AND CENTRAL AVENUE, EXCEPT OVER MINNESOTA DRAW ON ST. LOUIS RIVER BRIDGE WHICH IS GOVERNED BY INTERLOCKING SIGNAL.  
 AUTOMATIC BLOCK SIGNALS BETWEEN CENTRAL AVENUE AND 21ST STREET, SUPERIOR.

**RULES GOVERNING MOVEMENT OF TRAINS OVER ST. LOUIS RIVER BRIDGE.**  
**LOCATION OF SIGNALS**

**SPECIAL INSTRUCTIONS PAGE 7.**

Interlocking semaphore signals govern use of tracks between Bridge Switch and Elevator Station.  
 All semaphore signals are upper quadrant type with following indications:  
 Top arm, horizontal, red light, stop.  
 Diagonally upward or yellow light, caution.  
 Vertical, green light, proceed, clear.  
 With the exception of the three-arm semaphore located west of Minnesota draw on eastward track, and the two-arm semaphore located just east of Elevator Station on the westward track, a lower arm, half length, is provided, and following indications of this arm will govern:  
 Diagonally upward or yellow light, proceed with restricted speed expecting a train immediately ahead or routes lined up for movement against current of traffic.  
 The three-arm semaphore on eastward track west of Minnesota draw indicates position of double track switch, position of draw and route.  
 Top arm, Northern Pacific.  
 Middle arm, Great Northern.  
 Bottom arm, C. St. P. M. & O.  
**SPEED RESTRICTION:** At Minnesota and Wisconsin drawbridges twenty (20) miles per hour.

The two-arm semaphore on westward track east of Elevator Station is route indication.  
 Top arm, straight main line.  
 Bottom arm, Great Northern freight track.  
 Derails are located as follows:  
 At approach to Elevator Station from east and west.  
 At approach to Minnesota draw from Duluth.  
 All trains in both directions will come to a full stop before entering onto Wisconsin draw.  
 All eastward trains will come to a full stop before entering onto Minnesota draw.  
 If proceed signal is received at the approach to Minnesota draw from the east, it will not be necessary to stop for such draw, it being protected by derail.  
 Dwarf signals are of modern, upward quadrant type and govern movements against current of traffic.  
 Horizontal, red light, stop.  
 Vertical, green light, caution

WESTWARD		THIRD SUB-DIVISION (DULUTH AND SUPERIOR TERMINAL)										EASTWARD								
Second Class	FIRST CLASS					Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Station Numbers.	Distance from West Duluth Jct.	Time Table No. 164 November 29, 1931 Succeeding No. 163.					Distance from Superior U. D.	Car Capacity of Sidings.	FIRST CLASS				Second Class
311	65	309	317	313	STATIONS					310	66	318	314			312				
Soo Line 61	N. P. 65	D. S. S. & A. 8	Soo Line 18	Soo Line 63	Telegraph Offices and Calls					D. S. S. & A. 7	N. P. 66	Soo Line 17	Soo Line 62			Soo Line 60				
Mixed	Passenger	Passenger	Passenger	Passenger	Passenger					Passenger	Passenger	Passenger	Passenger			Mixed				
Ex. Sun.	Daily	Daily	Daily	Daily	WEST DULUTH JCT. ... P 0.6 ZENITH FURNACE 0.7					Daily	Daily	Daily	Daily	Ex. Sun.						
	L 11.50PM				WYX	L 5	0.0	WEST DULUTH JCT. ... P	3.6											
	11.53						0.6	ZENITH FURNACE	3.0											
L 7.14AM	11.55PM	L 8.17PM	L 6.13PM	L 1.44PM			1.3	Soo Line Conn. DW&P ... BERWIND JCT. ...	2.3	A 5.16AM	5.58	A 7.46AM	A 5.56PM	A 7.30PM						
							1.8	Interlocked 0.5 (GRASSY POINT DRAWBRIDGE)	1.8											
A 7.22AM	12.05AM	A 8.27PM	A 6.22PM	A 1.50PM			3.3	Interlocked 1.5 L. S. T. & T. RY. JCT. ...	0.3	L 5.08AM	5.49	L 7.39AM	L 5.47PM	L 7.22PM						
	As 12.06AM				WB 67		3.6	0.3 SUPERIOR U. D. ... D	0.0		L 5.40AM									
Ex. Sun.	Daily	Daily	Daily	Daily						Daily	Daily	Daily	Daily	Ex. Sun.						
.08	.16	.10	.09	.06				Time Over Sub-Division		.08	.23	.07	.09	.08						
16.0	18.5	12.0	13.3	20.0				Average Speed Per Hour		18.0	9.4	17.1	13.3	15.0						

**EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN BERWIND JCT. AND L. S. T. & T. RY. JCT., SUPERIOR.**

**SPECIAL INSTRUCTIONS, PAGE 7.**

**REGISTER STATIONS:** Superior Union Depot for first class trains and passenger extras.

**SPEED RESTRICTIONS:** At Grassy Point Bridge twenty (20) miles per hour.

**AT GRASSY POINT DRAW BRIDGE:** A torpedo machine is located just inside of the Home Signal and is operated in connection with derail. The explosion of one torpedo indicates that derail is set in derailing position and train must be brought to a stop immediately to prevent derailment.

**RULES GOVERNING THE MOVEMENT OF TRAINS OVER GRASSY POINT DRAW BRIDGE.**

**AT WEST DULUTH JUNCTION:**

All trains will run with restricted speed around east leg of wye and passing Zenith Furnace plant, looking out for switch engines working on main track.  
East leg of wye is terminal Third Sub-Division main track and the switches will be kept set and locked for main track.

WESTWARD		FOURTH SUB-DIVISION (DULUTH AND SUPERIOR TERMINAL)										EASTWARD				
THIRD CLASS	FIRST CLASS		Water, Fuel, Scales, Turn Tables, Wyes and Yard Limits.	Station Numbers.	Distance from East End.	Time Table No. 164 November 29, 1931 Succeeding No. 163.					Distance from Central Ave.	Car Capacity of Sidings.	FIRST CLASS		SECOND CLASS	
731	51					STATIONS							52	732		
Way Freight	Motor Car					Telegraph Offices and Calls							Motor Car	Freight		
Ex. Sun.	Daily					Pass. Station EAST END							Daily	Ex. Sun.		
	L 10.30AM		L 11.25AM	WOY	63	0.0	C. St. P. M. & O. Crossing	4.0	Yard	As 3.25PM		A 1.40AM				
	10.39		11.29	X	65	1.8	Interlocked 1.8 Track Conn. HILL AVE.	2.2	Yard	3.21		1.33				
						2.9	1.1 SOO LINE CROSSING	1.1								
A 10.45AM		As 11.35AM		WYX	67	4.0	Interlocked 1.1 Track Conn. AJ ... CENTRAL AVE. ... DN	0.0	Yard	L 3.15PM		L 1.25AM				
Ex. Sun.		Daily								Daily		Ex. Sun.				
.15		.10								.10		.15				
16.0		24.0								24.0		16.0				

**EASTWARD TRAINS ARE SUPERIOR TO TRAINS OF THE SAME CLASS IN THE OPPOSITE DIRECTION.  
DOUBLE TRACK BETWEEN EAST END PASSENGER STATION AND EAST LEG OF WYE AT CENTRAL AVE.**

**REGISTER STATION:** Central Avenue.

**AT CENTRAL AVENUE:** Switches at west end of double track will be kept set and locked for eastward trains. Switches at connection of Fourth and Second Terminal Sub-Divisions near depot will be kept set and locked for Second Sub-Division. Care will be taken by train and enginemen when using east leg of wye, as it is single track and on sharp curve; trains will not exceed twenty (20) miles per hour, and in foggy or stormy weather they will protect by flag.

**AT EAST END:** Switches at east end of double track, east of passenger station, will be kept set and locked for westward trains from First Sub-Division main track. The distant semaphore of interlocking signals governing movement of westward trains from First Sub-Division main track, is an automatic signal of upper quadrant type. When horizontal or red light, it indicates track or cross-overs between signal and passenger station in use. When diagonally upward or yellow light, caution. When vertical or green light, proceed.

**SPECIAL INSTRUCTIONS.**

(Note Changes.)

1. Second class and inferior trains may run ahead of delayed first class trains between West Duluth Junction and Duluth, Superior and Rice's Point, West Duluth Junction and Superior, Superior and East End, without orders.
2. All inferior to first class trains may run ahead of each other without orders.
3. Clearance Form A will not be required at Rice's Point Yard, Superior Freight Station or Superior Union Depot.
4. Extra trains, work extras and switch engines do not require train orders for movement between West Duluth Junction and Duluth, between Central Avenue and Rice's Point, between Central Avenue and East End, nor between West Duluth Jct. and Superior.
5. A Brakeman or Flagman must be stationed on the rear car of all trains, at all times, and be provided with proper flagging equipment. In case train is stopped on main track, Flagman must go back immediately with stop signals a sufficient distance to insure full protection to his train. Conductors and switch foremen will be held responsible for the strict observance of this rule.
6. To insure personal safety, Telegraphers having train orders or messages to deliver to passing trains, will stand to the right hand side of the train and avoid standing between tracks when possible to do so.
7. All trains must move within yard limits prepared to stop unless the main track is seen or known to be clear.
8. The D. T. main track is the northmost track between the Boston Coal Dock crossing and connection with Grassy Point main track. All switches leading from this track, when not in use, will be left lined for same.
9. All train crews, switch crews and light engines using D. T. main track from connection of Missabe coal dock with this track to east end of Zenith Furnace Company's lead, on Grassy Point line, will move in both directions under full control, expecting to find the D. T. main track occupied.
10. D. T. connection, located at east end of Zenith Furnace Company's lead, Grassy Point line, will be considered a railroad crossing. Trains using this connection will make usual stop and make sure that track is clear before proceeding.
11. Bridge Restrictions.  
Speed will be restricted over St. Louis Bridge between Duluth and Superior to twenty (20) miles per hour.

12. Great Northern Power Co. Track. Speed will be restricted on all bridges for Engines Class S3, S4 and S10 to eight (8) miles per hour. Engines Classes T, Q1 and heavier will not be permitted.

13. **Spring Switches:**—  
Maximum speed for all facing point and trailing point movements through switch fifteen (15) miles per hour. Trailing movements on the track for which the switch is normally lined may be made at normal speed.

Trains trailing through or stopping on a spring switch must not back up or take slack until points have been thrown by hand.

Flying switches over or through spring switches are prohibited.

When operated by hand, lever must be moved slowly, keeping a steady pressure on the handle until the switch is thrown and the handle is in the notch on the switch stand provided for it. When signal governing block in which spring switch is located is at stop, or where automatic block signals do not govern account trains running against current of traffic, facing point movements must not be made over switch until points have been examined.

Sand must not be used over points of spring switches.

14. When necessary to use a side track for main track, in addition to setting and locking switches for the siding and covering the same by train order, a flagman with proper flagging material will be stationed to fully protect approaching trains in the manner called for in Transportation Rules until movement over main track is resumed. When conductors find it necessary to leave switches set for siding they must fully protect approaching trains until relieved by trackmen or other employees fully competent and equipped to do so.

15. **At West Duluth Jct.**—Automatic Power Switch installed at end double track and Spring Switch at East end Wye to Grassy Point Line in connection with Spring Switch be governed by Rule (13), Special Instructions, Page (7) current Time Table. Automatic Power Switch at West Duluth Jct., end of double track, operated automatically by electric switch machine. When necessary to operate Switch by hand first throw lever marked "POWER LEVER," then throw lever marked "HAND-THROW LEVER." Both levers must be returned to normal position and locked after completing movement. Home Signal 146.1, Dwarf Signal 146.3, Home Signal 146.0, Dwarf Signal 146.2, Dwarf Signal 146.4, Signal 145.8 and Home Signal 146.6 are all Interlocking Signals and rules governing Interlocking apply. Trains finding Eastward Signal 146.0 and Westward 146.1 or Dwarf Signal 146.3 at "STOP" must examine end of double track switch, and if not in proper position use hand-throw lever and comply with Interlocking Signal Rules. Normal position of Spring Switch for Grassy Point Line Normal position of Power Switch for Westward trains.

**AUTHORIZED SURGEONS:—**

- Dr. A. L. KYLLO, 5719 Tower Ave., Superior,
- Dr. W. H. SCHNELL, 28 Columbia Bldg., Superior,
- Dr. F. C. SARAZIN, 28 Columbia Bldg., Superior,
- Dr. G. C. MacRAE, 400 Lyceum Bldg., Duluth,
- Dr. C. M. SMITH, 400 Lyceum Bldg., Duluth,
- Dr. O. E. HEIMARK, 2004 W. Superior St., Duluth,
- Dr. C. L. HANEY, 2004 W. Superior St., Duluth,

Office Telephone	Residence Telephone
Broad 1458R1	Broad 161
Broad 65	Broad 532
Broad 65	Broad 192
Melrose 1089	Hemlock 3954W
Melrose 1089	Hemlock 1955
Melrose 458	Melrose 1157
Melrose 458	Melrose 579

**LOCATION STRETCHERS:—**

- East End Freight Station.
- Central Avenue Freight Station.
- Superior Freight Station.
- Rices Point Yard Office, Duluth.
- Dock 6, Duluth.
- Duluth Union Depot.
- Tool Car, Duluth.
- West Duluth Passenger Station.

**WATCH INSPECTORS:—**

- H. HENDRICKSON, Duluth, 416 West Superior St.
- E. E. ESTERLY, Duluth, 1919 W. Superior St.
- W. F. HURST, West Duluth, 301 N. Central Ave.
- L. J. HOWATT, Superior, 1313 Tower Ave.

**MAXIMUM CLEARANCES.**

	LIMIT OF LOAD MEASUREMENT.																		
	Height Above Top of Rail.																		
	1 ft. Wide	2 ft. Wide	3 ft. Wide	4 ft. Wide	5 ft. Wide	6 ft. Wide	7 ft. Wide	7 ft. 6 in. Wide	8 ft. Wide	8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10 ft. 2 in. Wide	10 ft. 6 in. Wide	11 ft. Wide	11 ft. 6 in. Wide	Max. Height	Max. Width
First Sub-division, Duluth to Fond du Lac.....	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	11'-6"
Second Sub-division, Garfield Ave. to Central Ave.....	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	11'-6"
Third Sub-division, West Duluth Jct. to Superior U. D.....	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	11'-6"
Fourth Sub-division, East End to Central Ave.....	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	21'-0"	11'-6"

**F. L. BIRDSALL,**  
Ass't Superintendent.

**C. T. SPONSEL,**  
Ass't Superintendent.

**H. J. COUNCILMAN,**  
Trainmaster.

**GEORGE STEINER,**  
Chief Dispatcher.

1. Se  
and Duluth  
orders.  
2. A  
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4. E  
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hour.

N. P. 567

NORTHERN PACIFIC RAILWAY COMPANY

OFFICE OF SUPERINTENDENT L. S. DIVISION

Duluth, Minn., January 1st - 1932

CIRCULAR

NO. 1

ALL CONCERNED: DULUTH & SUPERIOR TERMINALS.

EFFECTIVE January 1, 1932 AND DURING THE

CONTINUANCE OF TIME TABLE NO. 164

Trains #717 and #718, operating between

Duluth and Dond du lac (First Sub-division)

DISCONTINUED.

POSTED \_\_\_\_\_ M

January \_\_\_\_\_ 1932

BB's - 1-2-3-4

Cy- FLB-CTS-HJC-GS-DF-WSK-NPT-  
HEM-WBE-CEU-EDJ-CJB-JHMcK-  
EHB-GFH-WHS-PHM-EEN-EJJ-  
Agents - Duluth to New Duluth

G. H. JACOBUS  
Superintendent

567

I hereby acknowledge receipt of Lake Superior Division  
Circular No. 1 Which Was Posted At \_\_\_\_\_

(Location)

(Place)

(Time)

(Date)

SIGNED \_\_\_\_\_

F. L.

A

rthern Power Co. Track. Speed will be restricted on all bridges for Engines Class S3, S4  
) miles per hour. Engines Classes T, Q1 and heavier will not be permitted.

itches:-

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through or stopping on a spring switch must not back up or take slack until points have been

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CHERS:-

Station.  
Freight Station.  
Station.  
Office, Duluth.  
pot.  
enger Station.

WATCH INSPECTORS:-

H. HENDRICKSON, Duluth, 416 West Superior St.  
E. E. ESTERLY, Duluth, 1919 W. Superior St.  
W. F. HURST, West Duluth, 301 N. Central Ave.  
L. J. HOWATT, Superior, 1313 Tower Ave.

OAD MEASUREMENT.

Above Top of Rail.

8 ft. 6 in. Wide	9 ft. Wide	9 ft. 6 in. Wide	10 ft. Wide	10 ft. 2 in. Wide	10 ft. 6 in. Wide	11 ft. Wide	11 ft. 6 in. Wide	Max. Height	Max. Width
20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	20'-3"	11'-6"
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ILMAN,  
ainmaster.

GEORGE STEINER,  
Chief Dispatcher.



- 1. See and Duluth orders.
- 2. A
- 3. C Depot.
- 4. E Duluth Junction between
- 5. A proper flag signals a responsible
- 6. To stand to the
- 7. A
- 8. T Grassy Point
- 9. All dock with tions under
- 10. D sidered a before procedure
- 11. B Speed hour.

N. P. 567

NORTHERN PACIFIC RAILWAY COMPANY

OFFICE OF SUPERINTENDENT L. S. DIVISION

Duluth - December 24th - 19 31

CIRCULAR

NO. 10

ALL CONCERNED: DULUTH & SUPERIOR TERMINALS.

EFFECTIVE January 1, 1932 and DURING THE

CONTINUANCE OF TIME TABLE NO. 164

Trains #717 and #718, operating between Duluth and Fond du lac (First Sub-division) discontinued.

POSTED M

December 1931

BB's - 1-2-3-4  
 Cy- FLB-CTS-HJC-GC-DF-WSK-NPW-  
 HEM-WBH-CEU-EDJ-CJB-JHMCK-  
 EHB-GFH-WHS-PHM-EEN-EJJ-  
 Agents - Duluth to New Duluth

G. H. JACOBUS, Superintendent

I hereby acknowledge receipt of 567 Division Circular No. which was posted at Location

Place Time Date

Signed

F. L. B... Ass

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CILMAN, Trainmaster.

GEORGE STEINER, Chief Dispatcher.

